

## CLAIMS

What is claimed is:

- 1 *SAC BS* 1. A method comprising the steps of:  
2 transmitting a primary packet from a source node towards a  
3 destination node on a full duplex bus;  
4 receiving a NAK while the primary packet is being transmitted; and  
5 aborting the transmission without sending all of the primary  
6 packet.
- 1 2. The method of claim 1 further comprising the step of:  
2 reclaiming bandwidth not used as a result of the aborting step.
- 1 3. The method of claim 2 wherein the reclaiming step comprises the  
2 steps of:  
3 granting the bus to a highest priority requesting node; and  
4 beginning transmission of a next primary packet from the highest  
5 priority requesting node.
- 1 4. A method comprising the steps of:  
2 receiving a primary packet at a destination node;  
3 identifying, during the receiving step, that the node cannot  
4 successfully accept the primary packet; and  
5 sending a NAK to the originator of the primary packet concurrently  
6 with the receiving step.

1       5. A system comprising:  
2              a full duplex bus;  
3              a source node coupled to the bus, the source node to transmit a  
4 primary packet; and  
5              a destination node coupled to the bus, to receive the primary packet,  
6 the destination node to generate a NAK if the primary packet cannot be  
7 successfully accepted, the NAK generated concurrently with the receipt of the  
8 primary packet.

1       6. The system of claim 5 wherein the source node aborts a  
2 transmission responsive to the NAK.

1       7. The system of claim 6 further comprising:  
2              a plurality of additional nodes coupled to the bus to form a tree topology  
3 wherein the source node grants the bus to a highest priority requesting node  
4 upon aborting the transmission.

1       8. The system of claim 5 wherein an inability to accept the primary  
2 packet is caused by unavailability of a needed resource.

1       9. An apparatus comprising:  
2              a transceiver;  
3              a state machine coupled to the transceiver, the state machine to  
4 generate NAK in response to an inability to successfully accept a primary packet,  
5 the NAK generated concurrently with an ongoing arrival of the primary packet.

1        10. The apparatus of claim 9 wherein the inability to accept is caused by  
2 resource unavailability.

1        11. The apparatus of claim 9 wherein when the apparatus is a source of  
2 a primary packet, it aborts a transmission of the primary packet when a NAK is  
3 received.